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1 [Incremental compilation of optimized code](#)

Lori L. Pollock, Mary Lou Soffa

 January 1985 **Proceedings of the 12th ACM SIGACT-SIGPLAN symposium on Principles of programming languages**
Full text available: [pdf \(1.57 MB\)](#)Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Although optimizing compilers have successfully been used to reduce the size and running times of compiled programs, present incremental compilers only support the incremental update of unoptimized code. In this work, we extend the notion of incremental compilation to include optimized code. Techniques to incrementally compile locally optimized code, given intermediate code modifications are developed using a program representation based on flow graphs and dags. A model is designed to repre ...

2 [Simple and effective link-time optimization of Modula-3 programs](#)

Mary F. Fernández

 June 1995 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1995 conference on Programming language design and implementation**, Volume 30 Issue 6
Full text available: [pdf \(1.35 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Modula-3 supports development of modular programs by separating an object's interface from its implementation. This separation induces a runtime overhead in the implementation of objects, because it prevents the compiler from having complete information about a program's type hierarchy. This overhead can be reduced at link time, when the entire type hierarchy becomes available. We describe opportunities for link-time optimization of Modula-3, present two link-time optimizations that reduce ...

3 [The model, language, and implementation of an object-oriented multimedia knowledge base management system](#)

Hiroshi Ishikawa, Fumio Suzuki, Fumihiko Kozakura, Akifumi Makinouchi, Mika Miyagishima, Yoshio Izumida, Masaaki Aoshima, Yasuo Yamane

 March 1993 **ACM Transactions on Database Systems (TODS)**, Volume 18 Issue 1
Full text available: [pdf \(3.23 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

New applications such as CAD, AI, and hypermedia require direct representation and flexible use of complex objects, behavioral knowledge, and multimedia data. To this end, we have devised a knowledge base management system called Jasmine. An object-oriented


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1 [The design of a template structure for a generalized data structure definition facility](#)

Billy G. Claybrook

 October 1976 **Proceedings of the 2nd international conference on Software engineering**

 Full text available: [pdf\(605.87 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A template structure capable of defining the runtime configuration of general data structures, e.g. arrays (homogeneous and non-homogeneous), cells, stacks, queues, trees, and general lists (graphs), for a generalized data structure definition facility that has practical utility in applications where thousands of data structures can be in existence at any given time is described. An important aspect of this template structure organization is that like instances of a data structure allocated ...

Keywords: Definition facilities, Dope vectors, Generalized data structures, Templates

2 [The model, language, and implementation of an object-oriented multimedia knowledge base management system](#)

Hiroshi Ishikawa, Fumio Suzuki, Fumihiko Kozakura, Akifumi Makinouchi, Mika Miyagishima, Yoshio Izumida, Masaaki Aoshima, Yasuo Yamane

 March 1993 **ACM Transactions on Database Systems (TODS)**, Volume 18 Issue 1

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New applications such as CAD, AI, and hypermedia require direct representation and flexible use of complex objects, behavioral knowledge, and multimedia data. To this end, we have devised a knowledge base management system called Jasmine. An object-oriented approach in a programming language also seems promising for use in Jasmine. Jasmine extends the current object-oriented approach and provides the following features. Our object model is based on functional data models and well-established ...

3 [A facility for defining and manipulating generalized data structures](#)

Billy G. Claybrook

 December 1977 **ACM Transactions on Database Systems (TODS)**, Volume 2 Issue 4

 Full text available: [pdf\(2.87 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

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